

FORM PTO-1390

U.S. Department of Commerce Patent and Trademark Office

Attorney's Docket No.

1751-373

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371**

U.S. Application No. (if moved, see 37 CFR 1.5)  
**10/523804**  
New Application

INTERNATIONAL APPLICATION NO.  
PCT/KR02/01951

INTERNATIONAL FILING DATE  
October 18, 2002

PRIORITY DATE CLAIMED  
August 12, 2002

**TITLE OF INVENTION**

METHOD FOR MANUFACTURING MESOPOROUS ALUMINA MOLECULAR SIEVE AND ALUMINA NANOTUBE  
AND USE OF THE ALUMINA NANOTUBE FOR STORAGE OF H<sub>2</sub>

**APPLICANT(S) FOR DO/EO/US**

Jae Suñg LEE et al.

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☐ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ has been communicated by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US)
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☐ is attached hereto.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
  - b. ☐ have been communicated by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

**ITEMS 11. TO 20. below concern other document(s) or information included:**

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98 with International Search Report.
12. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A preliminary amendment.
14. ☒ An Application Data Sheet under 37 CFR 1.76.
15. ☒ A substitute specification.
16. ☐ A power of attorney and/or address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information:  
Copies of:  
 -Published International Publication (47 pages)  
 -PCT Request (6 pages)  
 -IPER (5 pages)  
 -PCT/IB/301 (3 pages)  
 -PCT/IB/304 (1 page)  
 -PCT/IB/308 (1 page)  
 -PCT/IB/332 (1 page)  
 -PCT/IB/371 (1 page)

U.S. APPLICATION NO. (If known, see 37 CFR 1.50) New Application <b>10/523804</b>		INTERNATIONAL APPLICATION NO. PCT/KR02/01951		ATTORNEY DOCKET NO. 1751-373	
The following fees are submitted:					
21. <input checked="" type="checkbox"/> Basic National Fee .....				\$300.00	
22. <input checked="" type="checkbox"/> Examination Fee If International Preliminary Examination Report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1) - (4) ..... \$100.00 All other situations ..... \$200.00				\$200.00	
23. <input checked="" type="checkbox"/> Search Fee Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority ..... \$100.00 International Search Report prepare and provided to the Office ..... \$400.00 All other situations ..... \$500.00				\$400.00	
<b>TOTAL OF 21,22 and 23=</b>				\$900.00	
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or a fraction thereof.				\$	
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)	RATE		
- 100=	/ 50		X 250.00		
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).					
Claims	Number Filed	Number Extra	Rate		
Total Claims	33 - 20 =	13	X \$50.00	\$650.00	
Independent Claims	3 - 3 =	0	X \$200.00	\$	
Multiple dependent claim(s) (if applicable)			+ \$360.00	\$	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				\$1550.00	
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				\$775.00	
<b>SUBTOTAL =</b>				\$	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
<b>TOTAL NATIONAL FEE =</b>				\$	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$40.00	
<b>TOTAL FEES ENCLOSED =</b>				\$815.00	
				Amount to be refunded	\$
				charged	\$
<p>a. <input checked="" type="checkbox"/> Checks in the amount of \$ 775.00 and 40.00 to cover the above fees is enclosed.</p> <p>b. <input type="checkbox"/> Please charge my Deposit Account No. 02-2135 in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.</p> <p>c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 02-2135. A duplicate copy of this sheet is enclosed.</p> <p><b>NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.</b></p> <p>SEND ALL CORRESPONDENCE TO: Customer No. 6449</p> <p>G. Franklin Rothwell Rothwell, Figg, Ernst &amp; Manbeck 1425 K St., N.W. Washington, D.C. 20005 Phone: 202/783-6040</p> <p><u>G. F. Rothwell</u> Signature</p> <p><u>G. Franklin Rothwell</u> Name</p> <p><u>18,125</u> Registration Number</p>					

DT12 Rec'd PCT/PTO 09 FEB 2005

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : New Application  
Applicant : Jae Sung LEE et al.  
Filed : Herewith  
TC/A.U. :  
Examiner :

Docket No. : 1751-373  
Customer No. : 06449  
Confirmation No. :

SUBMISSION OF SUBSTITUTE SPECIFICATION

Director of the United States Patent  
and Trademark Office  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Dear Sir:

A substitute specification is being submitted herewith. A clean copy and marked copy of the specification are attached. No new matter has been added.

Respectfully submitted,

By: \_\_\_\_\_



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